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Dkt. 75632/JPW/YC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Omry Ben-Ezra, et al.  
U.S. Serial No. : 10/560,654  
Filed : May 1, 2006  
For : VAGAL STIMULATION FOR ANTI-EMBOLIC  
THERAPY

1185 Avenue of the Americas  
New York, New York 10036  
January 29, 2007

ATTN: GROUP ART UNIT 3762  
Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

In order to ensure compliance with applicants' duty of disclosure under 37 C.F.R. §1.56 and §1.97(a)-(d), applicants request that the following documents be considered and made of record in the above-identified application which is listed on Form PTO-1449, attached hereto as **Exhibit A**.

1. Bibevski, S. and Dunlap M.E., (1999) "Ganglionic Mechanisms Contribute To Diminished Vagal Control In Heart Failure," *Circulation*, 99(22):2958-63 (**Exhibit 1**);
2. Bilgutay, A.M. et al., (1968) "Vagal Tuning. A New Concept In The Treatment Of Supreantricular Arrhythmia, Angina Pectoris, And Heart Failure," *The Journal of Thoracic and Cardiovascular Surgery*, 56(1): 71-82 (**Exhibit 2**);

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3. Bluemel, K.M. et al., (1990) "Parasympathetic Postganglionic Pathways To the Sinoatrial Node," *The American Journal of Physiology*, 259(5 Pt 2):H1504-10 **(Exhibit 3)**;
4. Carlson, M.D. et al., (1992) "Selective Stimulation Of Parasympathetic Nerve Fibers To The Human Sinoatrial Node," *Circulation*, 85: 1311-1317 **(Exhibit 4)**;
5. Chen, S. et al., (1998) "Intracardiac Stimulation Of Human Parasympathetic Nerve Fibers Induces Negative Dromotropic Effects: Implication With The Lesions Of Radiofrequency Catheter Ablation," *Journal of Cardiovascular Electrophysiology*, 9(3): 245-52 **(Exhibit 5)**;
6. Cooper, T.B. et al., (1980) "Neural Effects On Sinus Rate And Atrioventricular Conduction Produced By Electrical Stimulation From A Transvenous Electrode Catheter In The Canine Right Pulmonary Artery," *Circulation Research*, 46: 48-57 **(Exhibit 6)**;
7. Cummings, J.E. et al., (1980) "Preservation Of The Anterior Fat Pad Paradoxically Decreases The Incidence Of Postoperative Atrial Fibrillation In Humans," *Journal of the American College of Cardiology*, 43(6): 994-1000 **(Exhibit 7)**;
8. European Application Publication No. EP 0 688 577, published December 27, 1995 (PACESETTER AB) **(Exhibit 8)**;
9. European Application Publication No. EP 0 831 954, published April 1, 1998 (MEDTRONIC INC) **(Exhibit 9)**;

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11. Furukawa, Y. et al., (1989) "Differential Blocking Effects Of Atropine And Gallamine On Negative Chronotropic And Dromotropic Responses To Vagus Stimulation In Anesthetized Dogs," *Journal of Pharmacology And Experimental Therapeutics*, 251(3): 797-802 (**Exhibit 11**);
12. Fuster, V. and Ryden, L.E., (2001) "ACC/AHA/ESC Guidelines For The Management Of Patients With Atrial Fibrillation," *Journal of the American College of Cardiology*, 38(4): 1231-66 (**Exhibit 12**);
13. Garrigue, S. et al., (1998) "Post-ganglionic Vagal Stimulation Of The Atrioventricular Node Reduces Ventricular Rate During Atrial Fibrillation," *Pacing and Clinical Electrophysiology*, 21(4), Part II, 878 (**Exhibit 13**);
14. Goldberger, J.J. et al., (1999) "New Technique For Vagal Nerve Stimulation," *Journal of Neuroscience Methods*, 91(1-2): 109-114 (**Exhibit 14**);
15. Hjalmarson, A., (1999) "Prevention Of Sudden Cardiac Death With Beta Blockers," *Clinical Cardiology*, 22 Suppl 5: V11-5 (**Exhibit 15**);
16. International Application Publication No. WO 01/10375 published February 15, 2001 (IMPULSE DYNAMICS NV, ET AL.) (**Exhibit 16**);

17. International Application Publication No. WO 01/10432  
published February 15, 2001 (UAB RESEARCH FOUNDATION)  
**(Exhibit 17);**
18. International Application Publication No. WO 01/26729  
A1 published April 19, 2001 (CYBERONICS INC.) **(Exhibit 18);**
19. International Application Publication No. WO 02/085448  
published October 31, 2002 (UNIV OKLAHOMA STATE)  
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20. Jideus, L., (2001) "Atrial Fibrillation After Coronary  
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25. Page, P.L. et al., (1995) "Regional Distribution Of Atrial Electrical Changes Induced By Stimulation Of Extracardiac And Intracardiac Neural Elements," *The Journal of Thoracic and Cardiovascular Surgery*, 109(2): 377-88 (**Exhibit 25**);
26. Rijkhoff, N.J.M. and Sinkjær, T., (1999) "Selective Stimulation Of Small Diameter Nerve Fibers In A Mixed Bundle," *Proceedings Of The Annual Project Meeting Sensations/Neuros And Mid Term Review Meeting Neuros*, p. 20-21 (**Exhibit 26**);
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164. U.S. Patent No. 6,456,866 issued September 24, 2002 to Tyler, D.;
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185. U.S. Patent No. 7,076,299 issued July 11, 2006 to Thong, T.;
186. U.S. Statutory Invention Registration No. H1,905, published October 3, 2000 (Hill);
187. Waninger, M.S. et al., (2000) "Electrophysiological Control Of Ventricular Rate During Atrial Fibrillation," *Pacing and Clinical Physiology*, 23(8): 1236-44 (**Exhibit 27**); and
188. Zhang, Y. et al., (2002) "Optimal Ventricular Rate Slowing During Atrial Fibrillation By Feedback AV Nodal-Selective Vagal Stimulation," *American Journal of Physiology: Heart and Circulatory Physiology*, 282(3): H1102-10 (**Exhibit 28**);

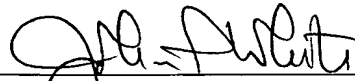
Copies of documents numbers 1-26 and 187-188 are attached hereto as **Exhibits 1-26** and **27-28**, respectively. In accordance with 37 C.F.R. §1.92(a)(2)(ii), copies of U.S. Patents and U.S. Patent Application Publications need not be provided. Accordingly, a

Applicants: Omry Ben-Ezra, et al.  
U.S. Serial No.: 10/560,654  
Filed: May 1, 2006  
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copy of documents listed above as items 27-186 are not submitted herewith.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,



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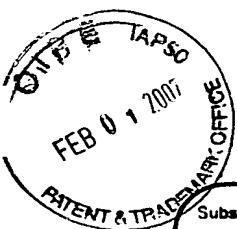
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1/29/07

John P. White  
Reg. No. 28,678

Date



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/560,654
		Filing Date	1 May 2006
		First Named Inventor	Omry Ben-Ezra
		Art Unit	3762
		Examiner Name	
Sheet 1	of 12	Attorney Docket Number 75632/JPW/YC	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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	2	Bilgutay, A.M. et al., (1968) "Vagal Tuning, A New Concept In The Treatment Of Supraventricular Arrhythmias, Angina Pectoris, And Heart Failure," The Journal of Thoracic and Cardiovascular Surgery, 56(1): 71-82	
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	4	Carlson, M.D. et al., (1992) "Selective Stimulation Of Parasympathetic Nerve Fibers To The Human Sinoatrial Node," Circulation, 85: 1311-1317	
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Applicants: Omry Ben-Ezra, et al.  
U.S. Serial No. 10/560,654  
Filed: May 1, 2006  
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**Complete if Known**

Application Number	10/560,654
Filing Date	1 May 2006
First Named Inventor	Omry Ben-Ezra
Art Unit	3782
Examiner Name	
Attorney Docket Number	75632/JPW/YC

Sheet 2 of 12

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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	14	Goldberger, J.J. et al., (1999) "New Technique For Vagal Nerve Stimulation," <i>Journal of Neuroscience Methods</i> , 91(1-2): 109-114	
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<b>Application Number</b>	10/560,654
<b>Filing Date</b>	1 May 2006
<b>First Named Inventor</b>	Omry Ben-Ezra
<b>Art Unit</b>	3762
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	75632-JPW/YC

Sheet	3	of	12
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Sheet 4 of 12**Complete if Known**

Application Number	10/560,654
Filing Date	1 May 2006
First Named Inventor	Omry Ben-Ezra
Art Unit	3762
Examiner Name	
Attorney Docket Number	75632/JPW/YC

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
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	29	US- 2002-0120304	08-29-2002	Meel, R.	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	8	EP 0 688 577	12-27-1995	PACESETTER AB		
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	19	WO 02-085448	10-31-2002	UNIV OKLAHOMA STATE		

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Application Number	10/560,654
Filing Date	1 May 2006
First Named Inventor	Omry Ben-Ezra
Art Unit	3762
Examiner Name	
Attorney Docket Number	75632/TPH/YC

Sheet 5 of 12

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	47	US- 2004-0172075	09-02-2004	Shafer, L. et al.	
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Application Number	10/560,654
Filing Date	1 May 2006
First Named Inventor	Omry Ben-Ezra
Art Unit	3762
Examiner Name	
Attorney Docket Number	75632/JPH/YC

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Sheet 7 of 12**Complete if Known**

Application Number	10/560,654
Filing Date	1 May 2006
First Named Inventor	Omry Ben-Ezra
Art Unit	3762
Examiner Name	
Attorney Docket Number	75632/JPW/YC

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	84	US- 5,178,161	01-12-1993	Kovacs, G.T.A.	
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Sheet **8** of **12****Complete if Known**

Application Number	10/560,654
Filing Date	1 May 2006
First Named Inventor	Omry Ben-Ezra
Art Unit	3762
Examiner Name	
Attorney Docket Number	75632/JPW/YC

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	103	US- 5,423,872	08-13-1995	Cigaina, V.	
	104	US- 5,437,285	08-01-1995	Venier, R.L. et al.	
	105	US- 5,437,285	08-08-1995	Snyder, S.H. et al.	
	106	US- 5,454,840	10-03-1995	Krakovsky, A.A.	
	107	US- 5,487,756	01-30-1996	Kallosco, K.	
	108	US- 5,507,784	04-16-1996	Hill, M.R.S. et al.	
	109	US- 5,522,854	08-04-1996	Ideker, R.E. et al.	
	110	US- 5,540,730	07-30-1996	Terry, R.S. et al.	
	111	US- 5,540,734	07-30-1996	Zabara, J.	
	112	US- 5,582,718	10-08-1996	Palermo, F.X.	
	113	US- 5,571,150	10-05-1996	Wernicke, J.F. et al.	
	114	US- 5,578,061	10-26-1996	Stroetmann, B. et al.	
	115	US- 5,634,462	08-03-1997	Tyler, D.J. et al.	
	116	US- 5,645,570	07-08-1997	Corbuod, G.	
	117	US- 5,658,318	08-19-1997	Stroetmann, B. et al.	
	118	US- 5,690,681	11-25-1997	Geddes, L.A. et al.	
	119	US- 5,690,691	11-25-1997	Chen, J.D.	
	120	US- 5,700,282	11-23-1997	Zabara, J.	
	121	US- 5,707,400	01-13-1998	Terry, R.S. et al.	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet **9** of **12****Complete if Known**

Application Number	10/560,654
Filing Date	1 May 2006
First Named Inventor	Omry Ben-Ezra
Art Unit	3762
Examiner Name	
Attorney Docket Number	75632/JPW/YC

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	122	US- 5,711,318	01-27-1998	Elsberry, D.D. et al.	
	123	US- 5,716,385	02-10-1998	Mittal, R.K. et al.	
	124	US- 5,755,750	05-28-1998	Petruska, J.C. et al.	
	125	US- 5,824,027	10-20-1998	Hoffer, J.A. et al.	
	126	US- 5,832,932	11-10-1998	Elsberry, D.D. et al.	
	127	US- 5,833,703	11-10-1998	Rise, M.T. et al.	
	128	US- 5,838,994	11-17-1998	Bourgeois, I.	
	129	US- 5,916,239	08-29-1999	Geddes, L.A. et al.	
	130	US- 5,938,584	08-17-1999	Ardito, J.R. et al.	
	131	US- 6,006,134	12-21-1999	Hill, M.R.S. et al.	
	132	US- 6,026,326	02-15-2000	Bardy, G. H.	
	133	US- 6,058,331	05-02-2000	King, G.W. et al.	
	134	US- 6,066,163	05-23-2000	John, M.S.	
	135	US- 6,073,048	08-08-2000	Kieval, R.S. et al.	
	136	US- 6,086,525	07-11-2000	Davey, K.R. et al.	
	137	US- 6,091,977	07-18-2000	Tarjan, P.P. et al.	
	138	US- 6,091,992	07-18-2000	Bourgeois, I.	
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	140	US- 6,097,984	08-01-2000	Douglas, D.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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Sheet 10

of 12

Application Number	10/560,654
Filing Date	1 May 2006
First Named Inventor	Omy Ben-Ezra
Art Unit	3762
Examiner Name	
Attorney Docket Number	75632/JPW/YC

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		Number-Kind Code <sup>2</sup> (if known)			
	141	US- 6,104,955	08-15-2000	Bourgeois, I.	
	142	US- 6,104,960	08-15-2000	Duysens, V. et al.	
	143	US- 6,119,516	09-19-2000	Hock, A.G.	
	144	US- 6,134,470	10-17-2000	Hartlaub, J.T.	
	145	US- 6,146,335	11-14-2000	Gozani, S.N.	
	146	US- 6,161,029	12-12-2000	Spreigl, W.T. et al.	
	147	US- 6,167,304	12-26-2000	Loos, H.G.	
	148	US- 6,169,924	01-02-2001	Meloy, T.S. et al.	
	149	US- 6,205,359	03-20-2001	Bojeva, B.B.	
	150	US- 6,230,061	05-08-2001	Hartung, W.	
	151	US- 6,240,314	05-29-2001	Pflichl, G. et al.	
	152	US- 6,266,564	07-24-2001	Hill, M.R.S	
	153	US- 6,272,377	08-07-2001	Sweeney, R.J. et al.	
	154	US- 6,292,695	09-18-2001	Webster, W.W. et al.	
	155	US- 6,319,241	11-20-2001	King, G.W. et al.	
	156	US- 6,341,236	01-22-2002	Osorio, I. et al.	
	157	US- 6,356,784	03-12-2002	Lozano, A.M. et al.	
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Application Number **10/560,654**  
 Filing Date **1 May 2006**  
 First Named Inventor **Omry Ben-Ezra**  
 Art Unit **3762**  
 Examiner Name  
 Attorney Docket Number **75632/JPW/YC**

Sheet **11** of **12****U. S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
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	164	US- 6,456,866	09-24-2002	Tyler, D.	
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	172	US- 6,600,956	07-29-2003	Maschino, S. et al.	
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Sheet	12	of	12
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First Named Inventor	Omyr Ben-Ezra
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Examiner Name	
Attorney Docket Number	75632/JPW/YC

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